

IN THE CLAIMS

1. (Currently amended) A method for a client device, comprising:

receiving an abstract data structure derived from data elements of pre-selected data to be protected, the pre-selected data being stored on a server;

searching, locally, text contained in a plurality of documents stored on a plurality of data storage media of the client device for an indication that at least a portion of the pre-selected data stored on the server may be contained in the text of the plurality of documents, the indication being detected based on the abstract data structure without ~~using~~ searching for the data elements of the pre-selected data;

detecting locally at least a portion of the pre-selected data in the text of at least one of the plurality of documents stored on any of the plurality of data storage media of the client device, the detection indicating that a user of the client device has caused the portion of the preselected data residing on the server to be stored on the client device; and

sending, from the client device to the server, a notification of the detection of ~~at least a~~ the portion of the pre-selected data in the text of at least one of the plurality of documents stored on any of the plurality of data storage media of the client device, the client device being a personal computing device.

2. (Previously Presented) The method of claim 1 further comprising:

upon detecting at least a portion of the pre-selected data, preventing access to the detected data.

3. (Previously Presented) The method of claim 1 wherein the text contained in the plurality of documents is searched periodically.
4. (Previously Presented) The method of claim 1 wherein the text contained in the plurality of documents is searched when the client device is disconnected from the network.
5. (Previously Presented) The method of claim 4 wherein sending a notification comprises:
upon detecting the pre-selected data, creating a message containing the notification of the detection of the pre-selected data;
placing the message in a transmission queue; and
transmitting the message to the server after the client device is re-connected to the server.
6. (Previously Presented) The method of claim 1 further comprising:
receiving instructions defining a scope of a search for the client device from the server.
7. (Previously Canceled)
8. (Previously Presented) The method of claim 1 wherein searching text contained in the plurality of documents comprises monitoring one or more specific data operations for presence of at least a portion of the pre-selected data.
9. (Previously Presented) The method of claim 8 wherein at least one of the one or more specific data operations is selected from the group consisting of a file-read, a file-write, a file-update, a read from a removable media device, a write to a removable media device, and access

of data stored on any of the plurality of data storage media by a program running on the client device.

10. (Previously Presented) The method of claim 1 wherein the pre-selected data has a tabular format.

11. (Previously Presented) The method of claim 1 wherein the pre-selected data is capable of being re-structured into a tabular format based on relationships among elements of the pre-selected data.

12. (Previously Presented) The method of claim 1 wherein the pre-selected data is maintained by an organization in at least one of a spreadsheet, a flat file, and a database.

13. (Previously Presented) The method of claim 12 wherein the pre-selected data is associated with an abstract data structure comprising a tuple-storage structure derived from the pre-selected data.

14. (Original) The method of claim 13 wherein the abstract data structure comprises a plurality of tuples, each of the plurality of tuples including a row numbers of a data item in a corresponding cell of a tabular structure of the pre-selected data.

15. (Original) The method of claim 14 wherein each of the plurality of tuples additionally includes a column number and optionally a column type of the data item in the corresponding cell.

16. (Original) The method of claim 1 wherein the plurality of data storage media is selected from the group consisting of a main memory, a static memory, and a mass storage memory.

17. (Previously Presented) The method of claim 1 wherein a plurality of data storage media comprises one or more volatile storage devices, and one or more persistent storage devices.

18. (Previously Presented) The method of claim 17 further comprising detecting use of the pre-selected data by an application running on the client device.

19. (Previously Presented) The method of claim 18 further comprising:
identifying the application using the pre-selected data; and
reporting the identified application.

20. (Currently amended) A client device apparatus comprising:
means for receiving an abstract data structure derived from data elements of pre-selected data to be protected, the pre-selected data being stored on a server;

means for searching, locally, text contained in a plurality of documents stored on a plurality of data storage media of the client device for an indication that at least a portion of the pre-selected data stored on the server may be contained in the text of the plurality of documents, the indication being detected based on the abstract data structure without ~~using~~ searching for the data elements of the pre-selected data;

means for detecting locally at least a portion of the pre-selected data in the text of at least one of the plurality of documents stored on any of the plurality of data storage media of the client

device the detection indicating that a user of the client device has caused the portion of the preselected data residing on the server to be stored on the client device; and

means for sending, from the client device to the server, a notification of the detection of ~~at least a~~ the portion of the pre-selected data in the text of at least one of the plurality of documents stored on any of the plurality of data storage media of the client device, the client device being a personal computing device.

21. (Previously Presented) The apparatus of claim 20 wherein the text contained in the plurality of documents is searched periodically.

22. (Previously Presented) The apparatus of claim 20 wherein the text contained in the plurality of documents is searched when the client device is disconnected from the network.

23. (Previously Presented) The apparatus of claim 20 wherein means for sending a notification comprises:

means for creating a message containing the notification of the detection of the pre-selected data upon detecting the pre-selected data;

means for placing the message in a transmission queue; and

means for transmitting the message to the server after the client device is re-connected to the server.

24. (Previously Presented) The apparatus of claim 20 further comprising:

means for receiving instructions defining a scope of a search for the client device from the server.

25. (Previously Presented) The apparatus of claim 20 wherein means for searching contents of a plurality of data storage media of the client device comprises means for monitoring one or more specific data operations for presence of at least a portion of the pre-selected data.

26. (Previously Presented) The apparatus of claim 25 wherein at least one of the one or more specific data operations is selected from the group consisting of a file-read, a file-write, a file-update, a read from a removable media device, a write to a removable media device, and access of data stored on any of the plurality of data storage media by a program running on the client device.

27. (Original) The apparatus of claim 20 wherein the plurality of data storage media is selected from the group consisting of a main memory, a static memory, and a mass storage memory.

28. (Previously Presented) The apparatus of claim 20 wherein a plurality of data storage media comprises one or more volatile storage devices, and one or more persistent storage devices.

29. (Previously Presented) The apparatus of claim 28 further comprising means for detecting use of the pre-selected data by an application running on the client device.

30. (Previously Presented) The apparatus of claim 29 further comprising:
means for identifying the application using the pre-selected data; and

means for reporting the identified application.

31. (Currently amended) A client device comprising:

a plurality of storage media storing an abstract data structure derived from data elements of pre-selected data to be protected, the pre-selected data being stored on a server, and a plurality of documents containing text for the client device, the client device being a personal computing device; and

at least one processor coupled to the plurality of storage media, at least one processor executing a set of instructions which cause the processor to search locally the text in the plurality of documents stored on a plurality of data storage media of the client device for an indication that at least a portion of the pre-selected data stored on the server may be contained in the text of the plurality of documents, the indication being detected based on the abstract data structure without using searching for the data elements of the pre-selected data, to detect locally at least a portion of the pre-selected data in the text of at least one of the plurality of documents stored on any of the plurality of data storage media of the client device, the detection indicating that a user of the client device has caused the portion of the preselected data residing on the server to be stored on the client device, and to send, from the client device to the server, a notification of the detection of at least a the portion of the pre-selected data in the text of at least one of the plurality of documents stored on any of the plurality of data storage media of the client device, the client device being a personal computing device.

32. (Currently Amended) A computer readable medium that provides instructions, which when executed on a processor cause the processor to perform a method for a client device, comprising:

receiving an abstract data structure derived from data elements of pre-selected data to be protected, the pre-selected data being stored on a server;

searching, locally, text contained in a plurality of documents stored on a plurality of data storage media of the client device for an indication that at least a portion of the pre-selected data, the indication being detected based on the abstract data structure without ~~using~~ searching for the data elements of the pre-selected data;

detecting locally at least a portion of the pre-selected data in the text of at least one of the plurality of documents stored on any one of the plurality of data storage media of the client device, the detection indicating that a user of the client device has caused the portion of the preselected data residing on the server to be stored on the client device; and

sending, from the client device to the server, a notification of the detection of ~~at least a~~ the portion of the pre-selected data in the text of at least one of the plurality of documents stored on any of the plurality of data storage media of the client device, the client device being a personal computing device.